

CLAIMS

What is Claimed is:

1. A Compact Peripheral Component Interconnect (CPCI) system
5 comprising:

a circuit board;

a front card coupled to a transition card via said circuit board;

a Small Computer System Interface (SCSI) bus connected to said transition card,
said SCSI bus having a first end and a second end; and

10 an SCSI device connected to said first end of said SCSI bus, wherein during a
period when said front card is disconnected from said CPCI system said transition card
provides a termination at said second end of said SCSI bus.

2. The CPCI system of Claim 1, wherein during normal operation when said
front card is connected with said CPCI system, said front card provides the termination
15 at said second end of said SCSI bus and said transition card does not provide the
termination.

3. The CPCI system of Claim 2, wherein during the period when said front
card is disconnected from said CPCI system, said transition card automatically provides
20 the termination.

4. The CPCI system of Claim 3, wherein when said front card is reconnected
with said CPCI system, said transition card automatically does not provide the
termination.

5. The CPCI system of Claim 1, further comprising a plurality of peripheral cards connected to said circuit board.

6. The CPCI system of Claim 5, wherein said plurality of peripheral cards are in communication with said front card.

7. The CPCI system of Claim 6, wherein each of said plurality of peripheral cards is coupled to a corresponding peripheral transition card via said circuit board.

8. The CPCI system of Claim 1, wherein said front card is presented with a first time-separated power domain and a second time-separated power domain.

9. The CPCI system of Claim 8, wherein said first time-separated power domain is provided to said transition card only when said front card is coupled to said transition card.

10. The CPCI system of Claim 9, wherein said transition card uses said first time-separated power domain to determine when to provide the termination to said second end of said SCSI bus.

11. The CPCI system of Claim 1, further comprising a switch for preventing said transition card from providing the termination.

12. The CPCI system of Claim 1, further comprising a switch for preventing said front card from providing the termination.

13. The CPCI System of Claim 1, wherein a plurality of connectors affixed to said circuit board and said front card is coupled to said transition card via said plurality of connectors.

14. A Compact Peripheral Component Interconnect (CPCI) system including a circuit board, said CPCI system comprising:

first, second, third, fourth and fifth connectors affixed to said circuit board;

a front card coupled to a transition card via said third, fourth and fifth connectors;

5 a Small Computer System Interface (SCSI) bus connected to said transition card, said SCSI bus having a first end and a second end; and

an SCSI device connected said first end of said SCSI bus; and

10 a first time-separated power domain provided to said first, second and third connectors, said first and second connectors providing said first power domain to said front card and said third connector providing said first power domain to said transition card;

wherein said first power domain can be provided to said transition card only when said front card is connected to said third connector; and

15 wherein said transition card uses said first power domain to determine when to provide a termination at said second end of said SCSI bus.

15. The CPCI system of Claim 14, wherein a second time-separated power domain is provided to said front card and said transition card.

20 16. The CPCI system of Claim 15, wherein said second power domain is provided to said transition card via said third, fourth and fifth connectors.

17. The CPCI system of Claim 14, wherein during normal operation when said front card is connected with said CPCI system, said front card provides the termination

at said second end of said SCSI bus and said transition card does not provide the termination.

18. The CPCI system of Claim 16, wherein during a period of when said front
5 card is disconnected from said CPCI system, said transition card provides the termination at said second end of said SCSI bus.

19. A method for implementing a hot swap on a Compact Peripheral
Component Interconnect (CPCI) system, comprising the steps of:

10 providing a first time-separated power domain to a front card;

providing said first time-separated power domain to a transition card only if said
front card is coupled to said transition card;

using said transition card to provide a termination at a Small Computer System
Interface (SCSI) bus connected to said transition card only if said first time-separated
15 power domain is not being provided to said transition card; and

using said front card to provide the termination at said SCSI bus if said first time
separated power domain is being provided to said transition card.

20. The method of Claim 19, wherein said front card is coupled to said
20 transition card via a circuit board.

21. The method of Claim 20, wherein said front card comprises first, second,
third, fourth and fifth connectors, and said front card is coupled to said transition card
via said third, fourth and fifth connectors.

22. The method of Claim 21, wherein said first time-separated power domain
is provided to said first, second and third connectors, said first and second connectors

providing said first power domain to said front card and said third connector providing said power domain to said transition card.

23, The method of Claim 19, further comprising the step of providing a second
5 time-separated power domain to said front card and said transition card.

24. The method of Claim 19, wherein said SCSI bus has a first end and a second end and wherein said first end is connected to an SCSI device and said second end is connected to said transition card.

10

LA2:596444.3